

FIG. 1

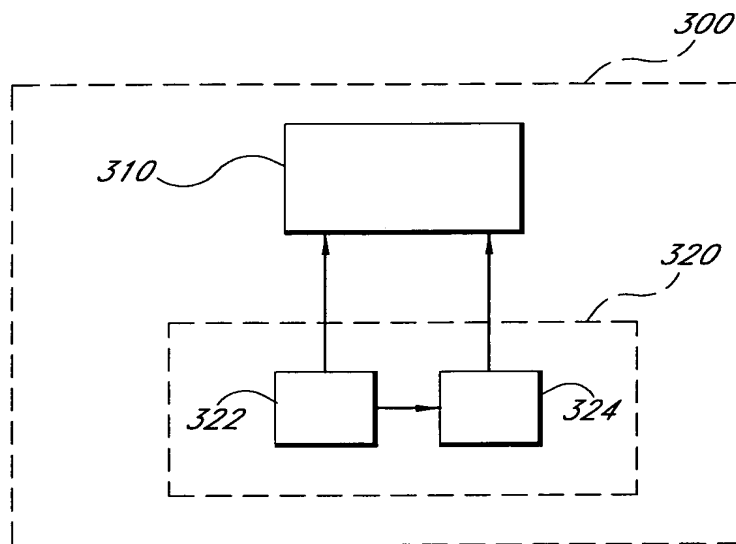


FIG. 2

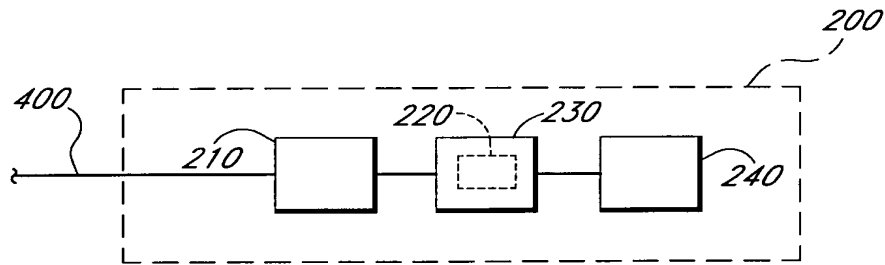


FIG. 3A

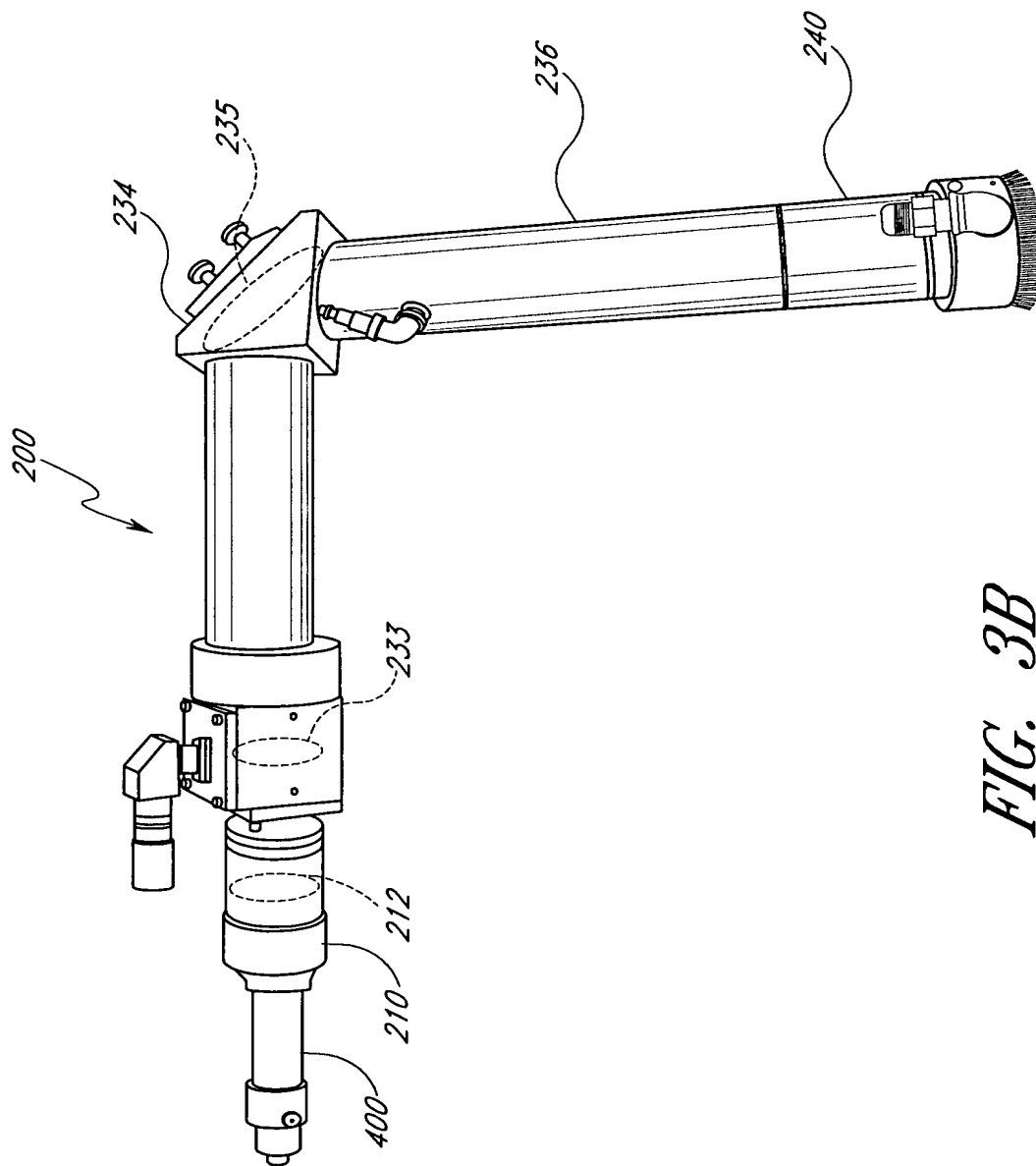


FIG. 3B

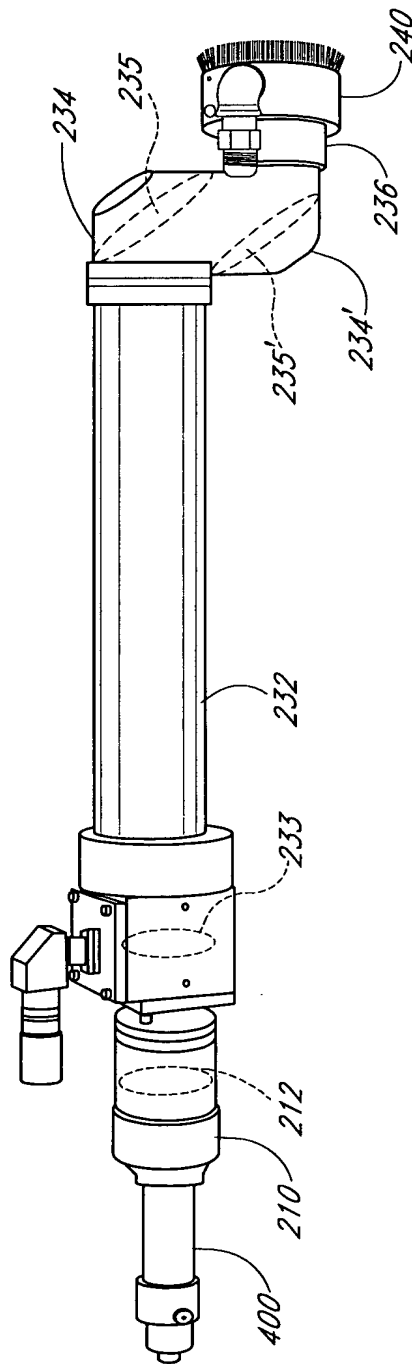


FIG. 3C

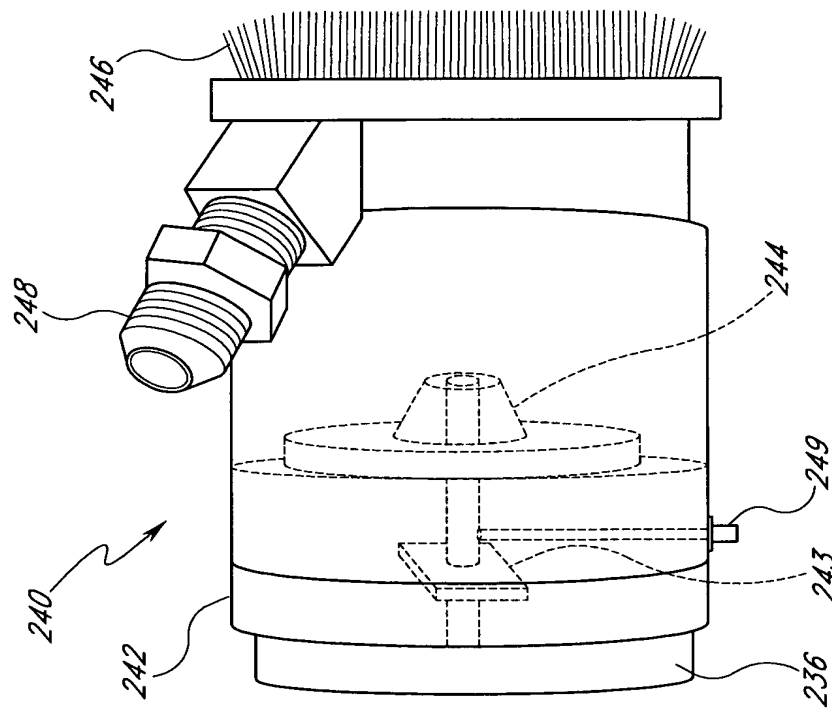


FIG. 4

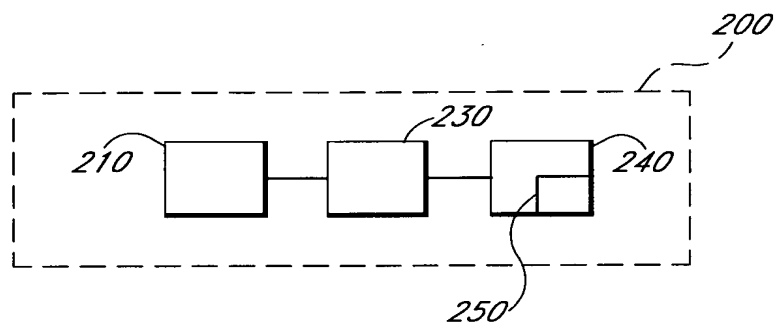


FIG. 5

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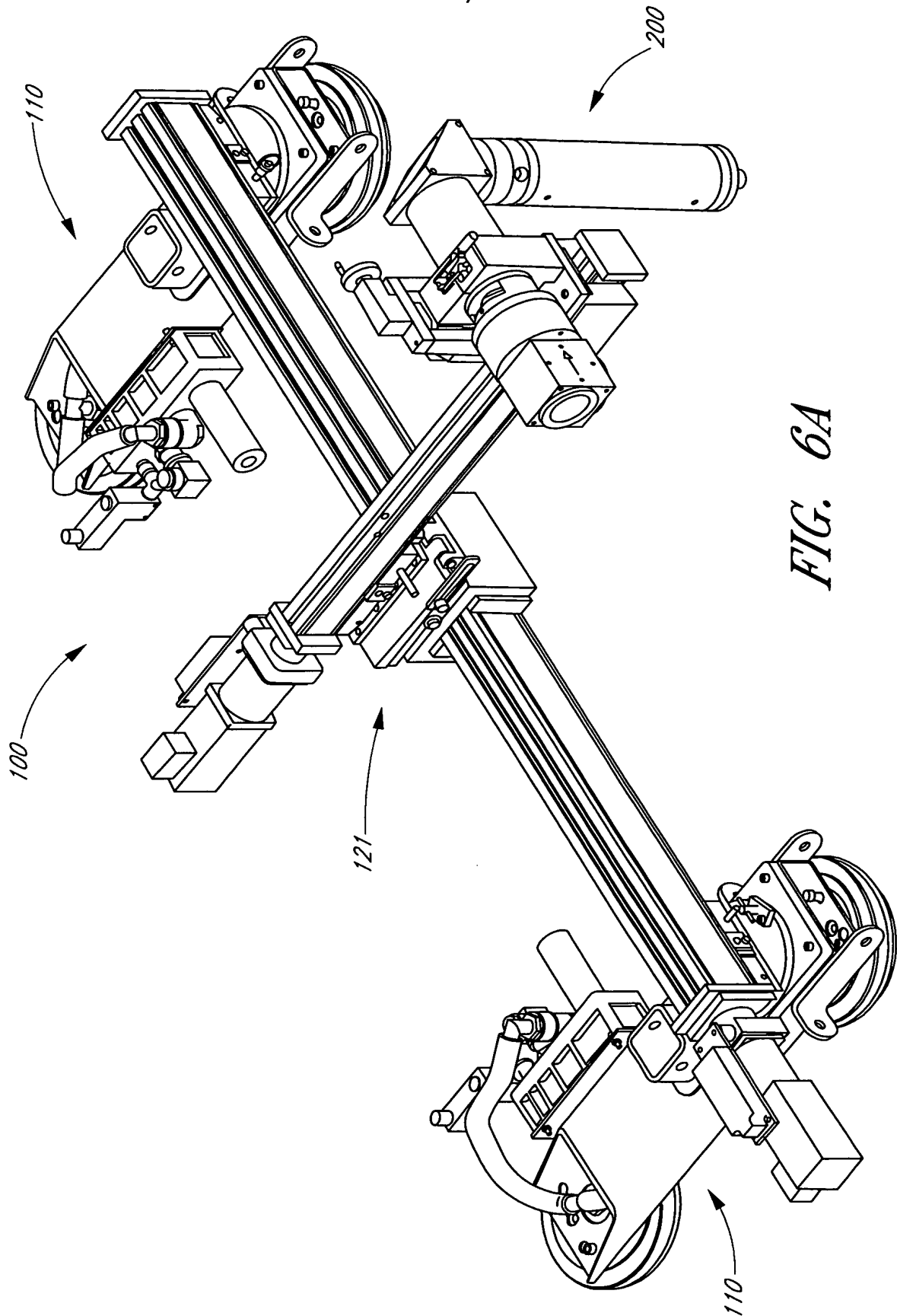


FIG. 6A

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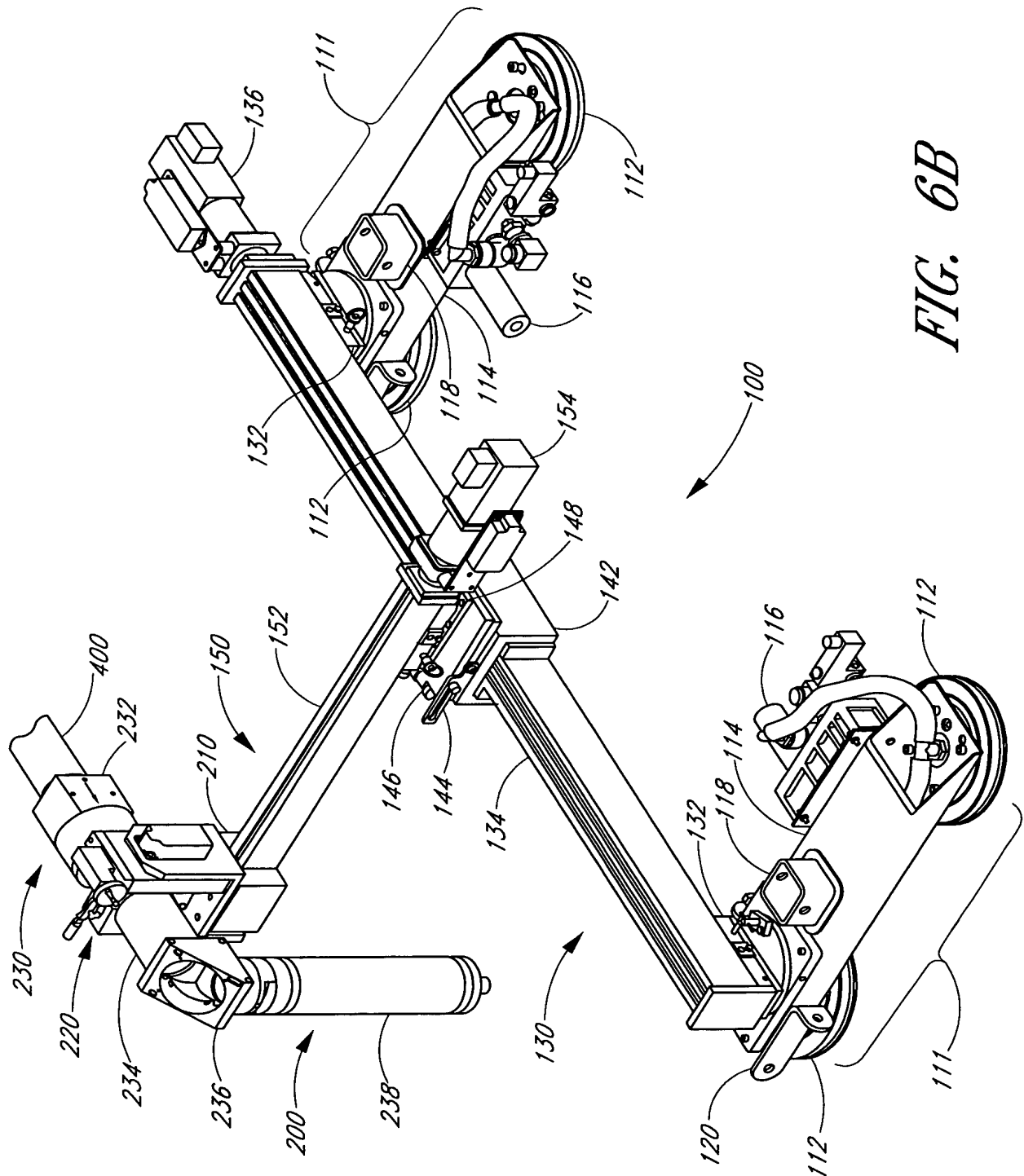
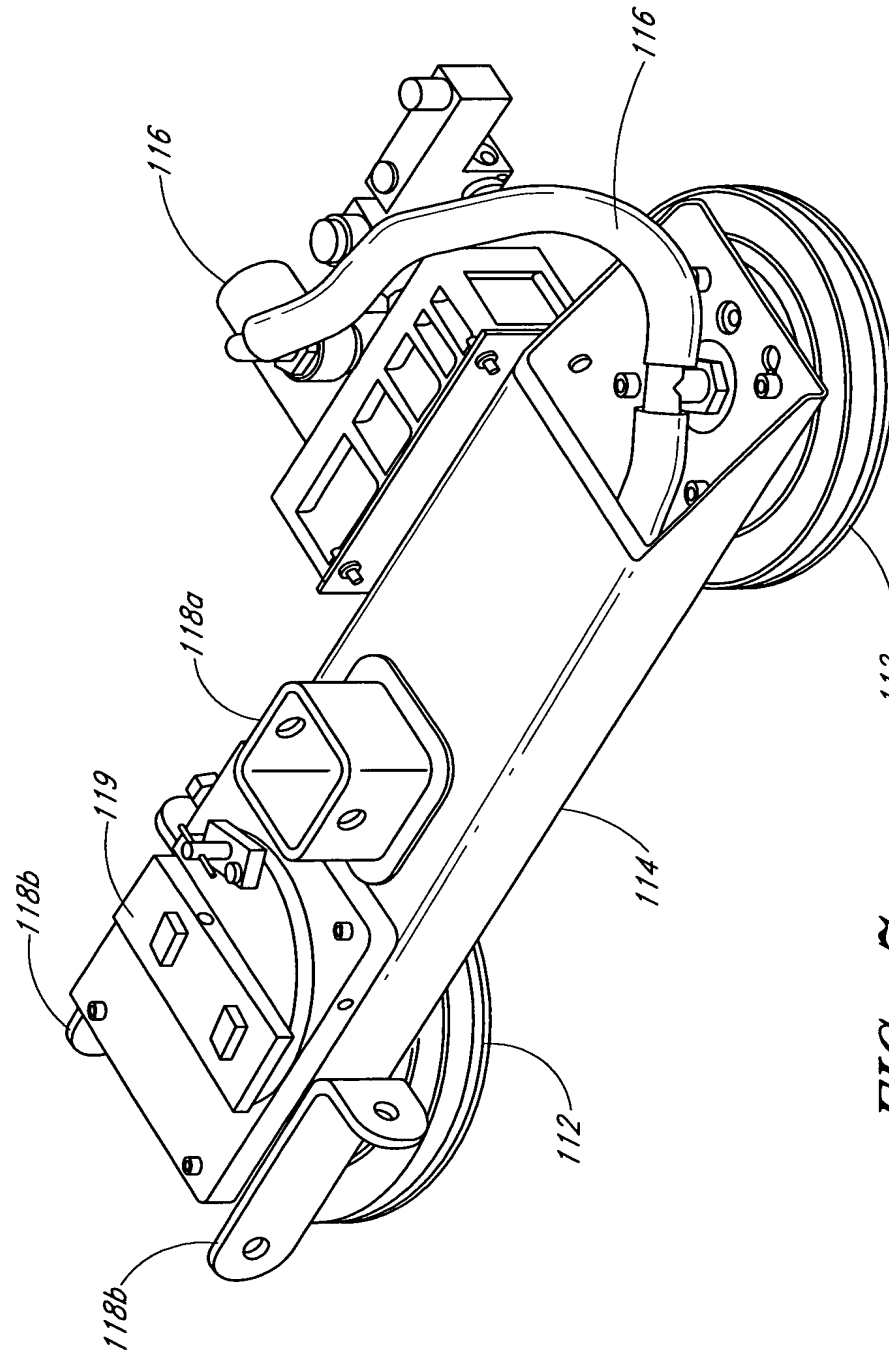
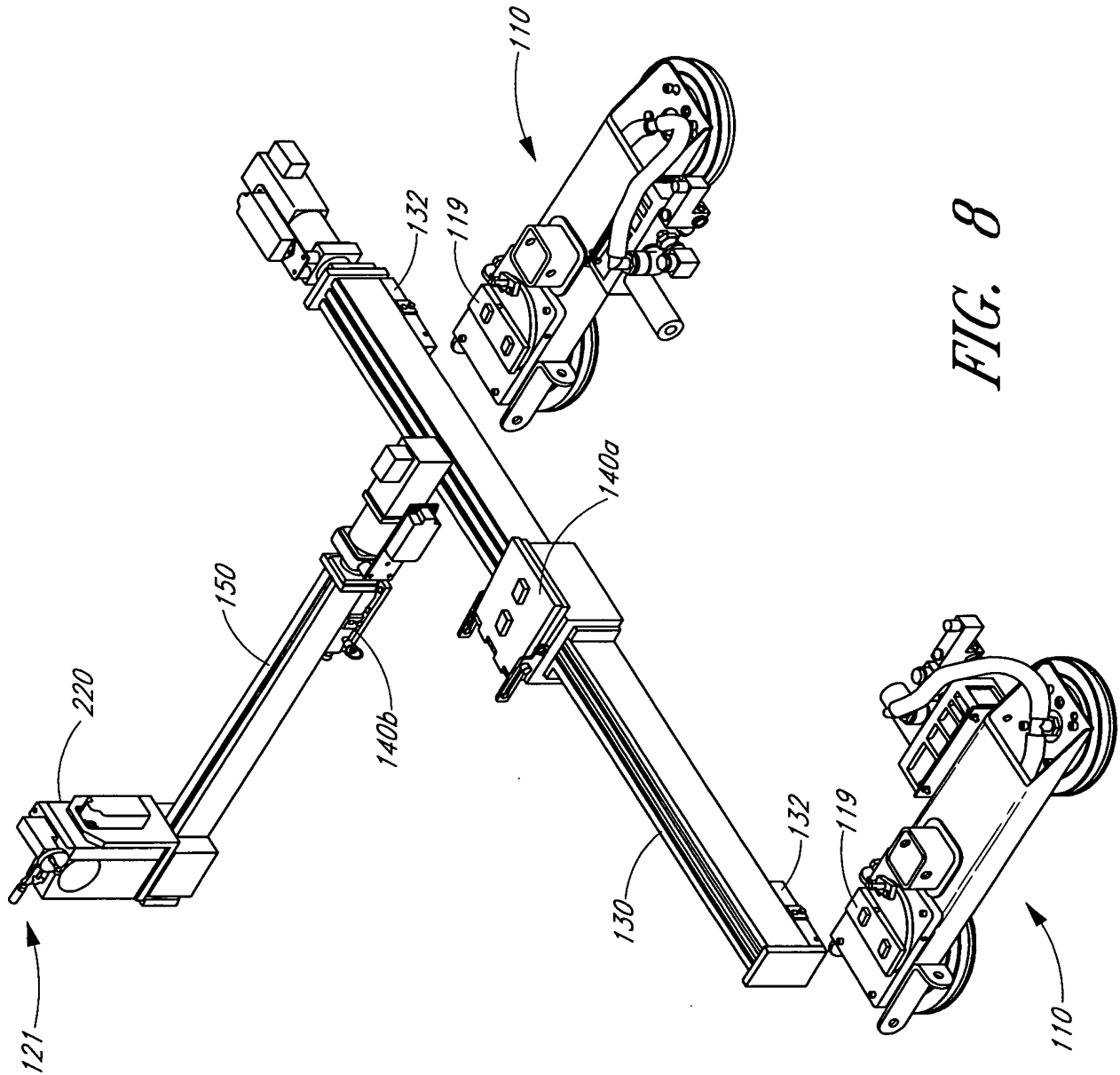


FIG. 6B





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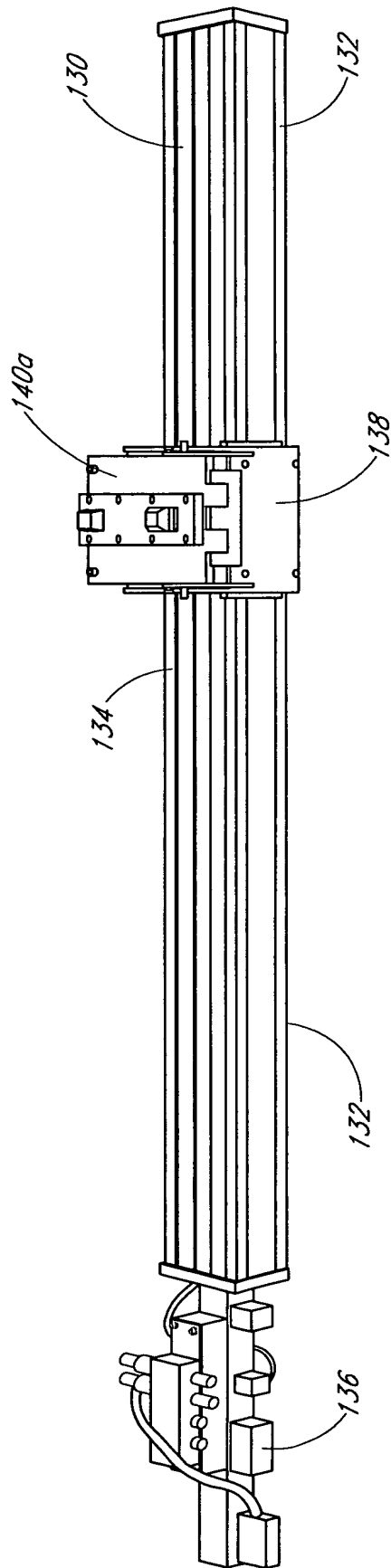


FIG. 9

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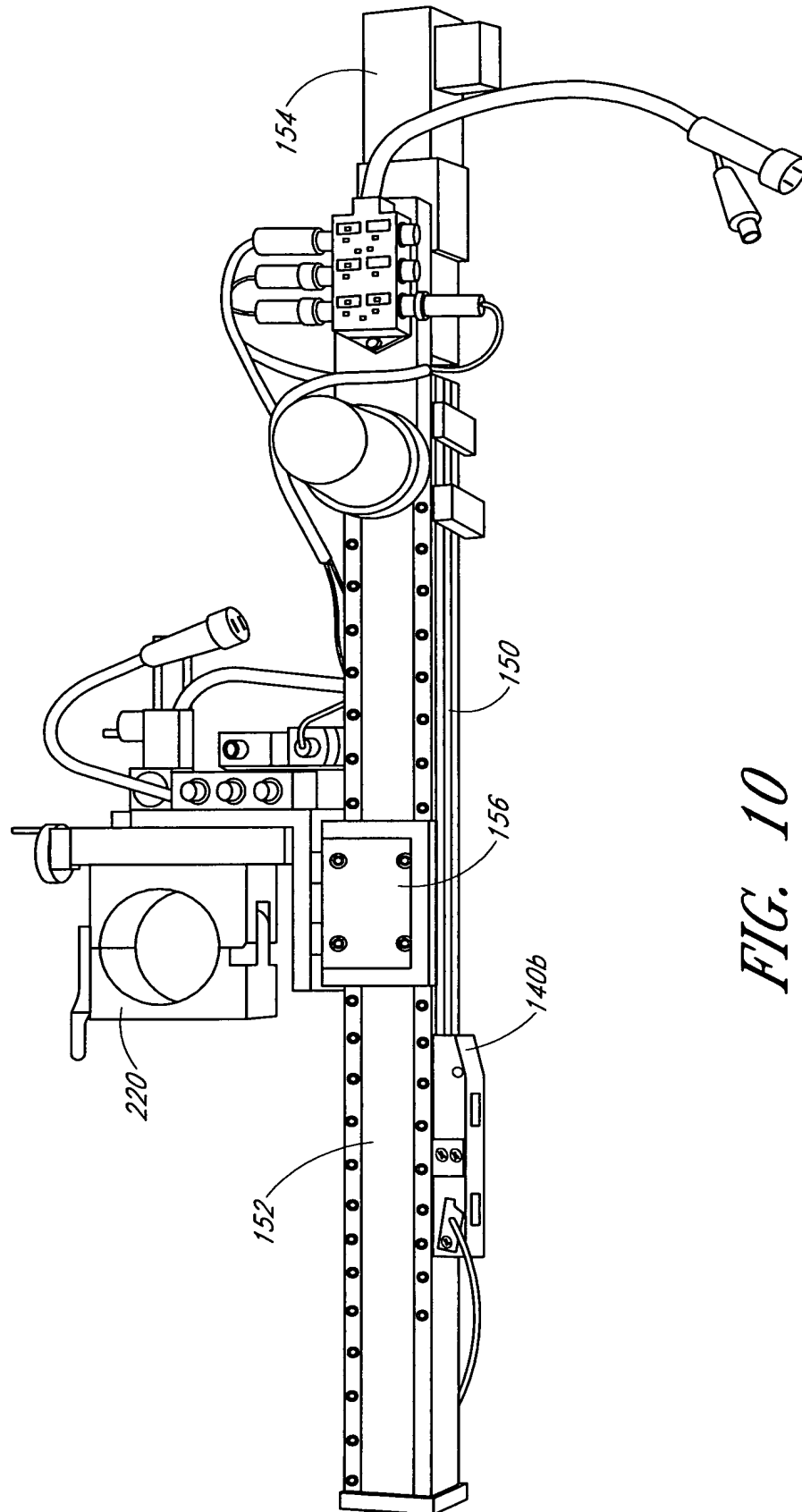
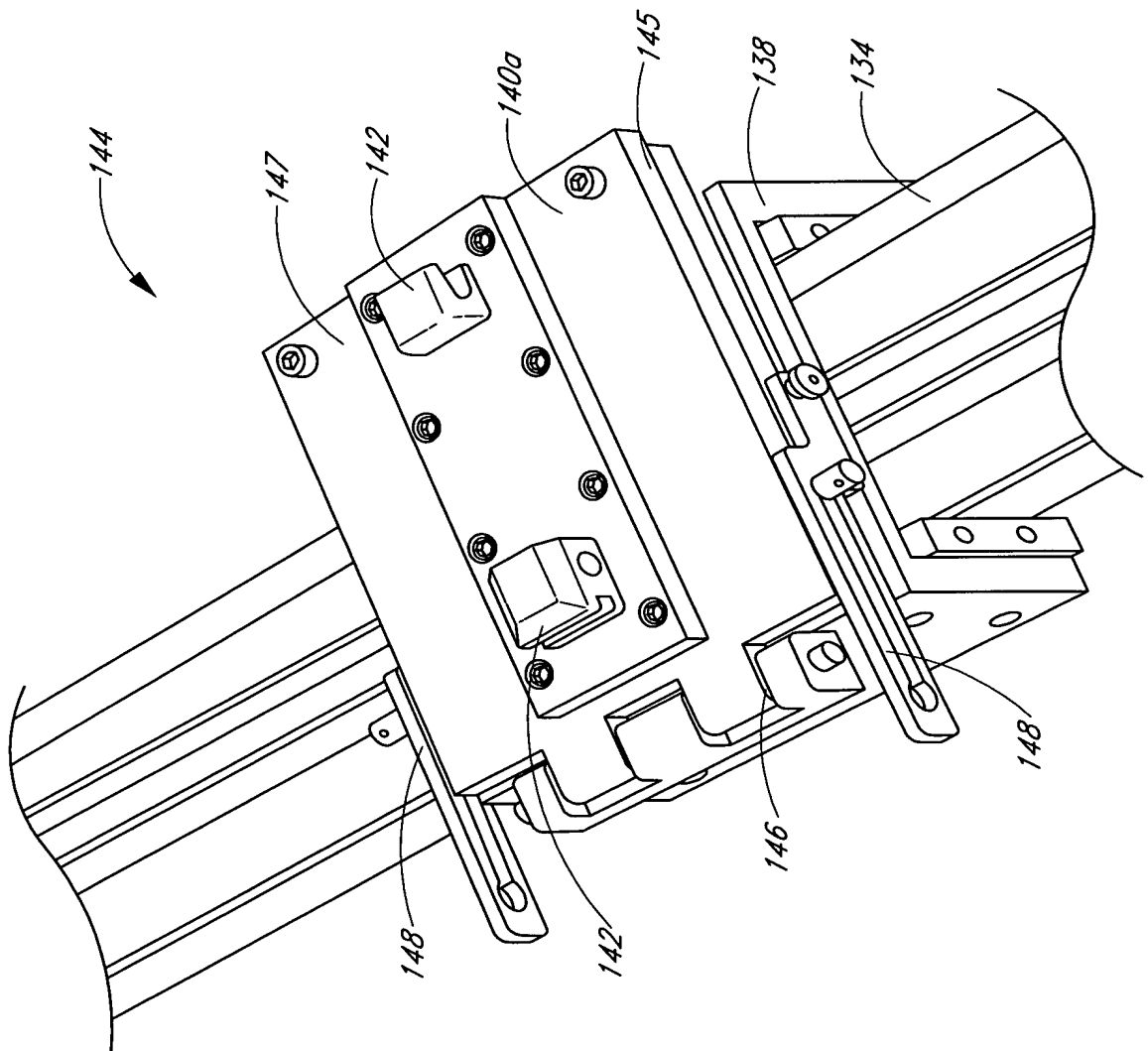
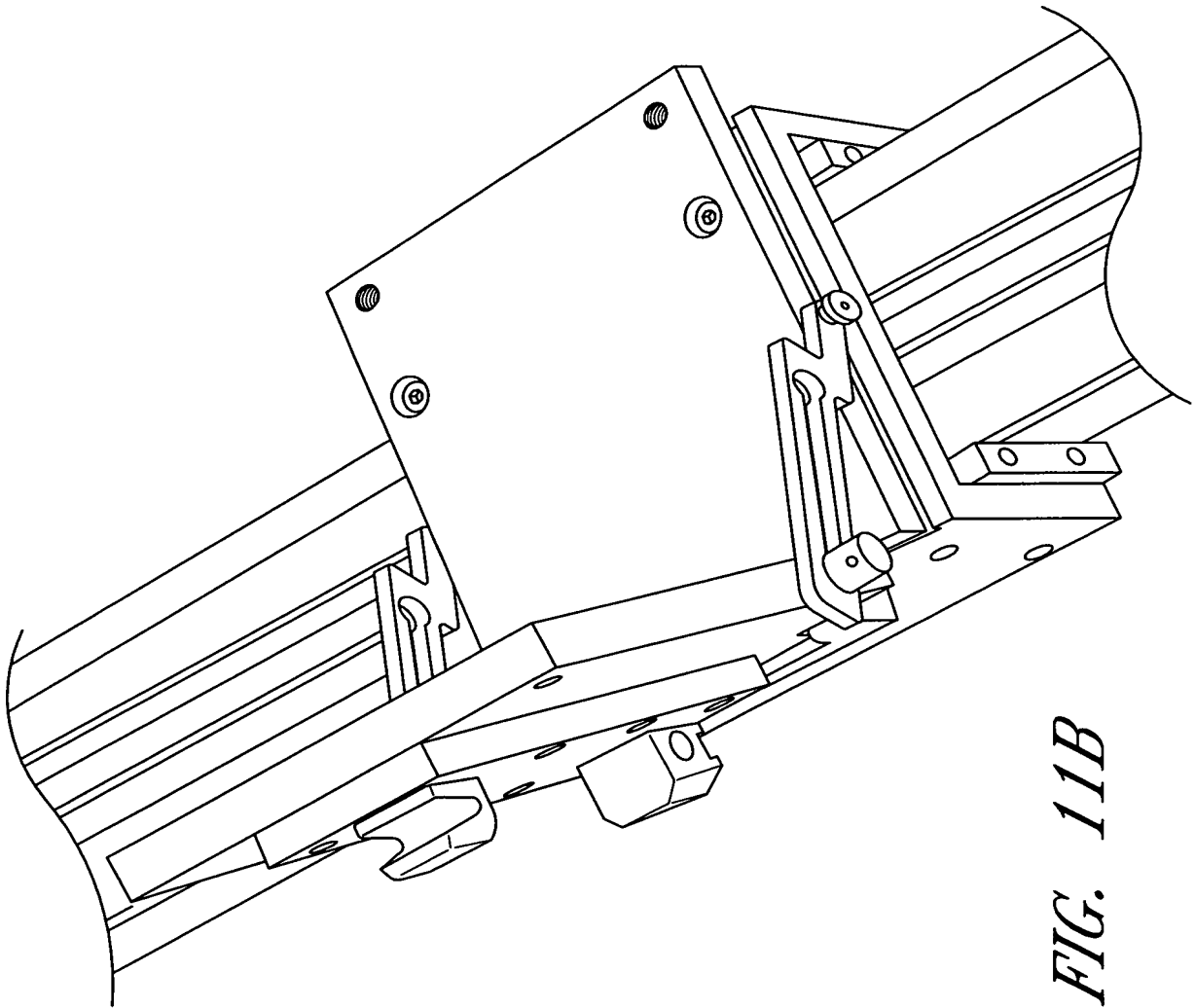


FIG. 11A





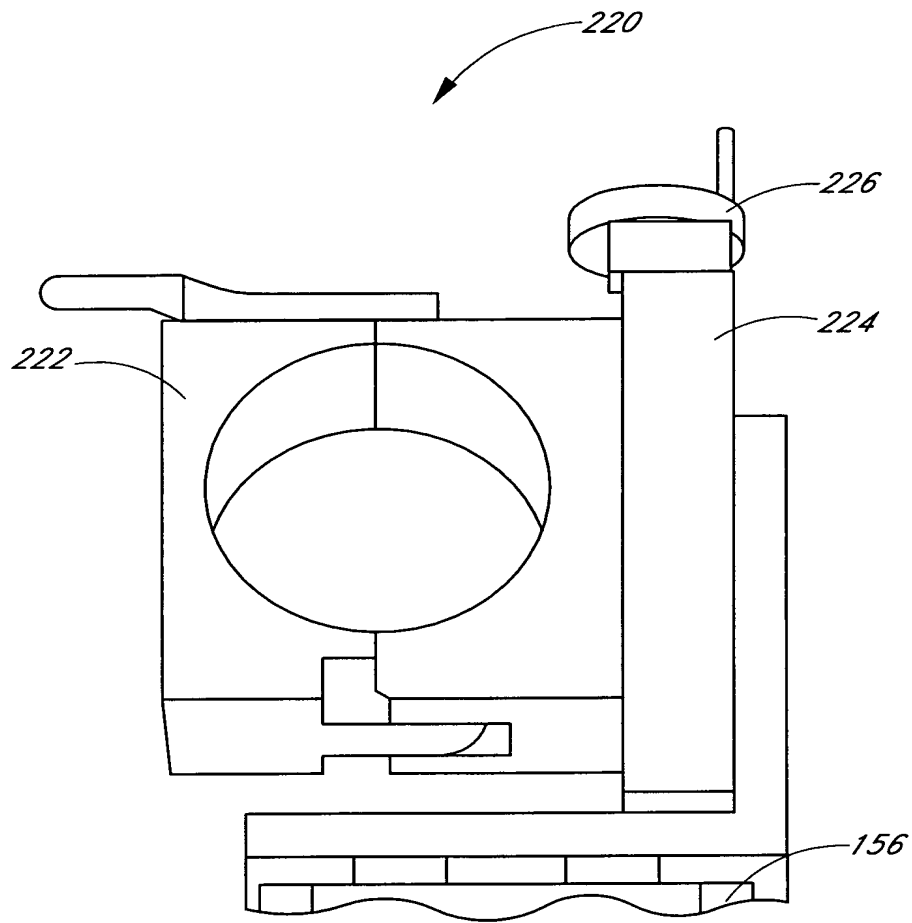
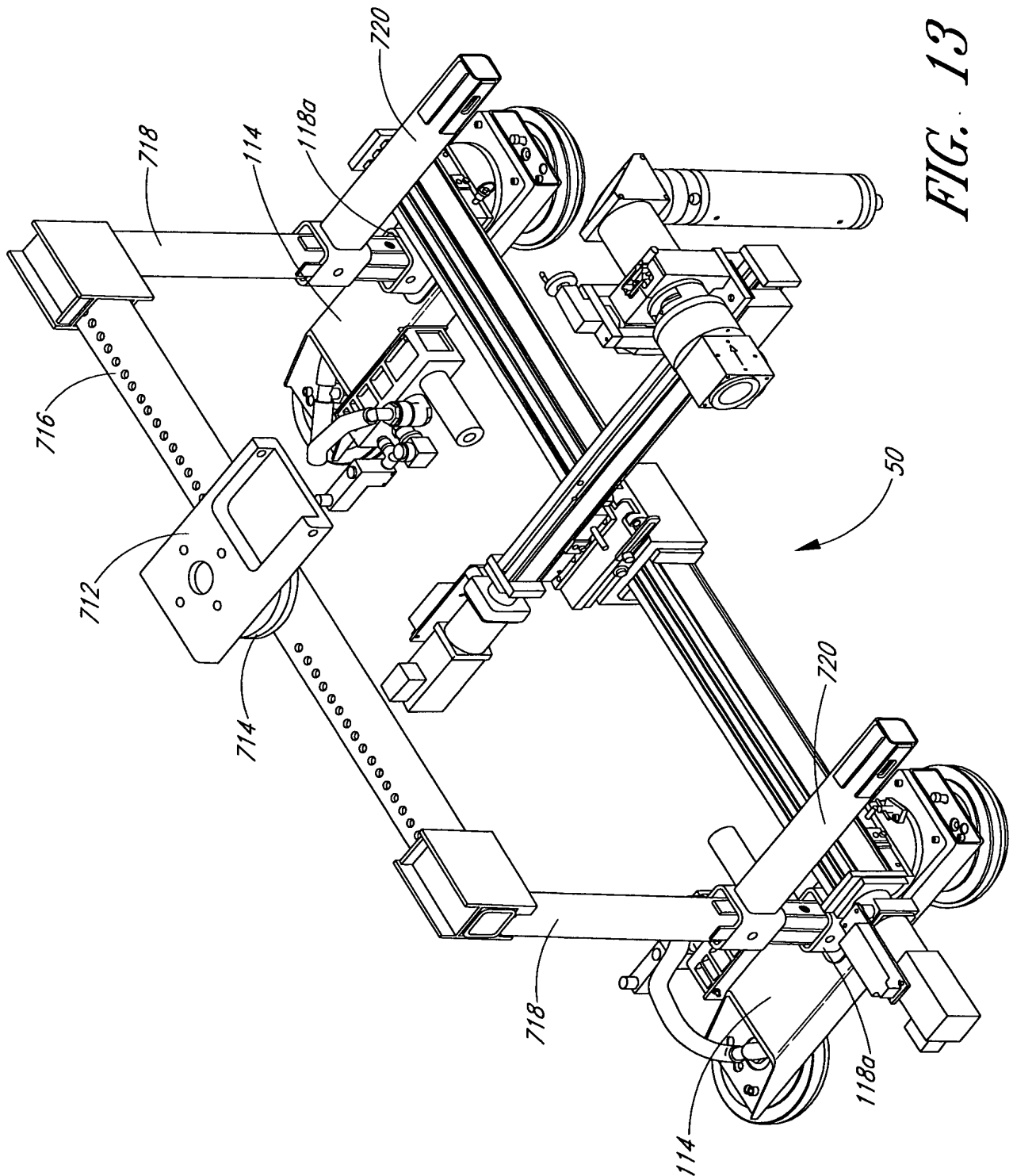


FIG. 12



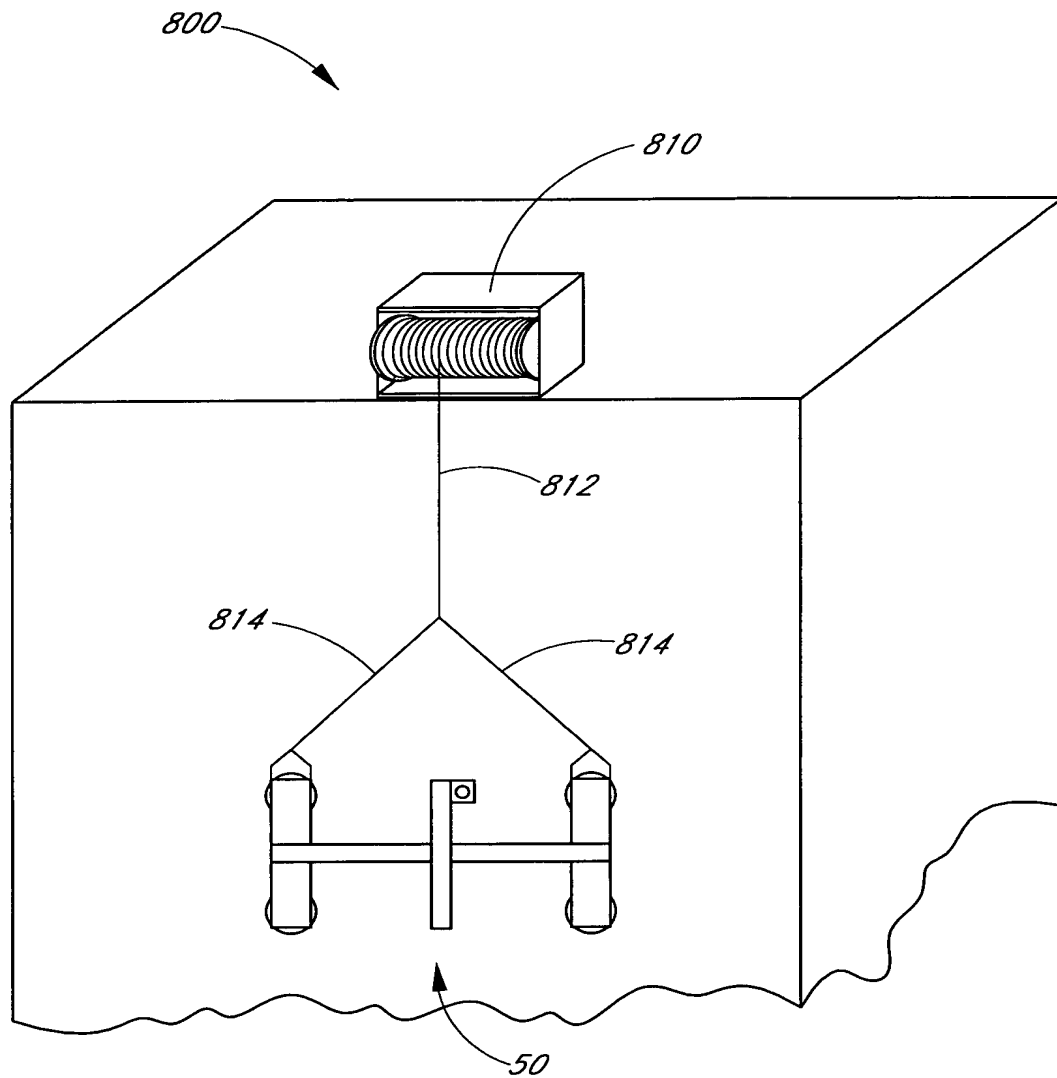


FIG. 14A

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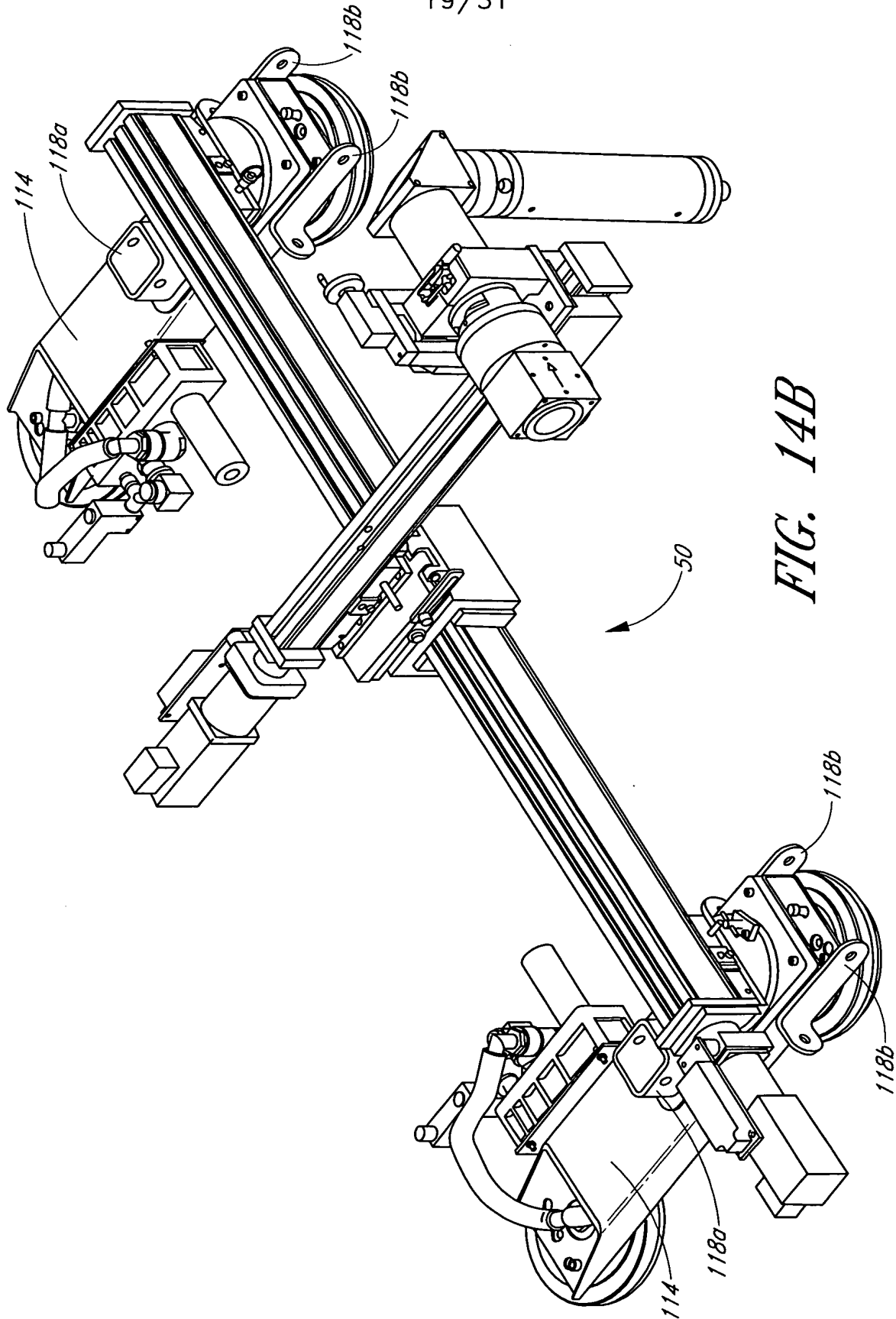


FIG. 14B

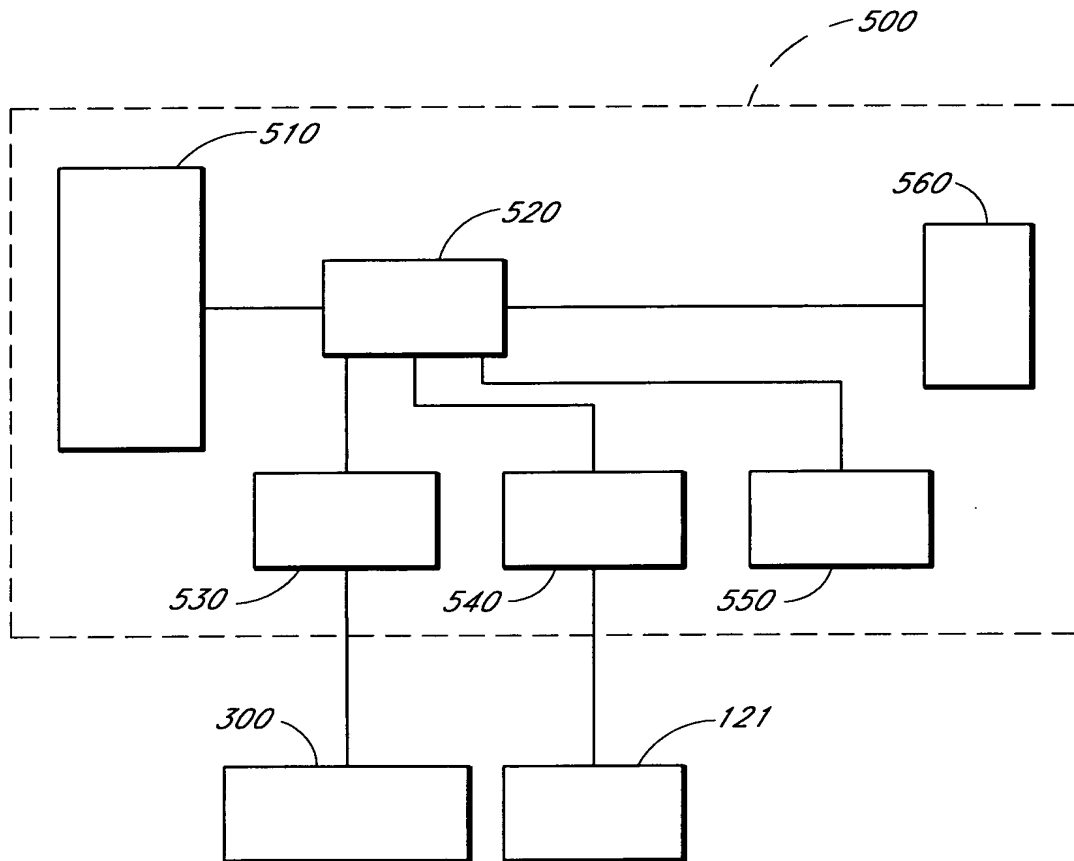


FIG. 15

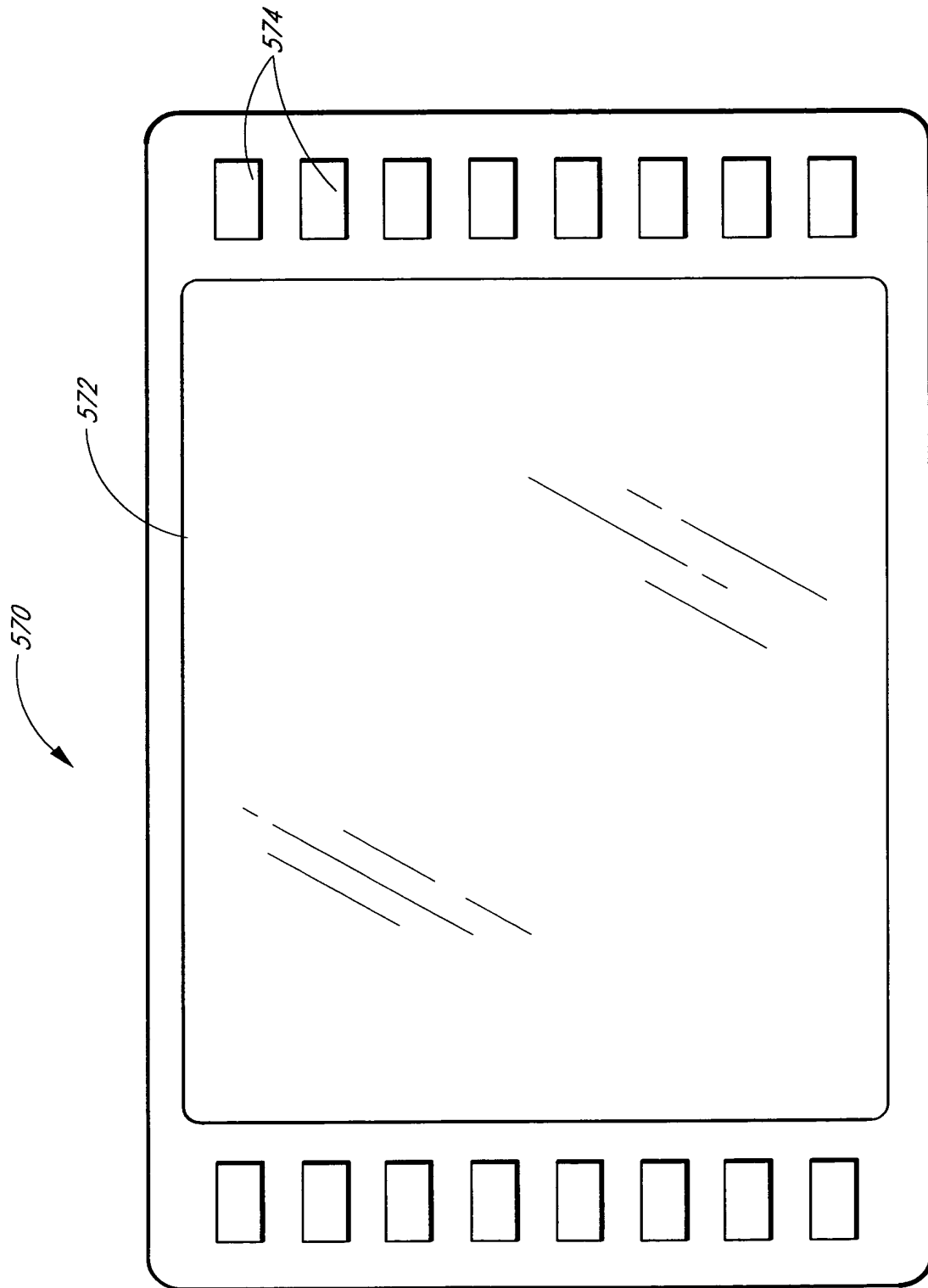


FIG. 16

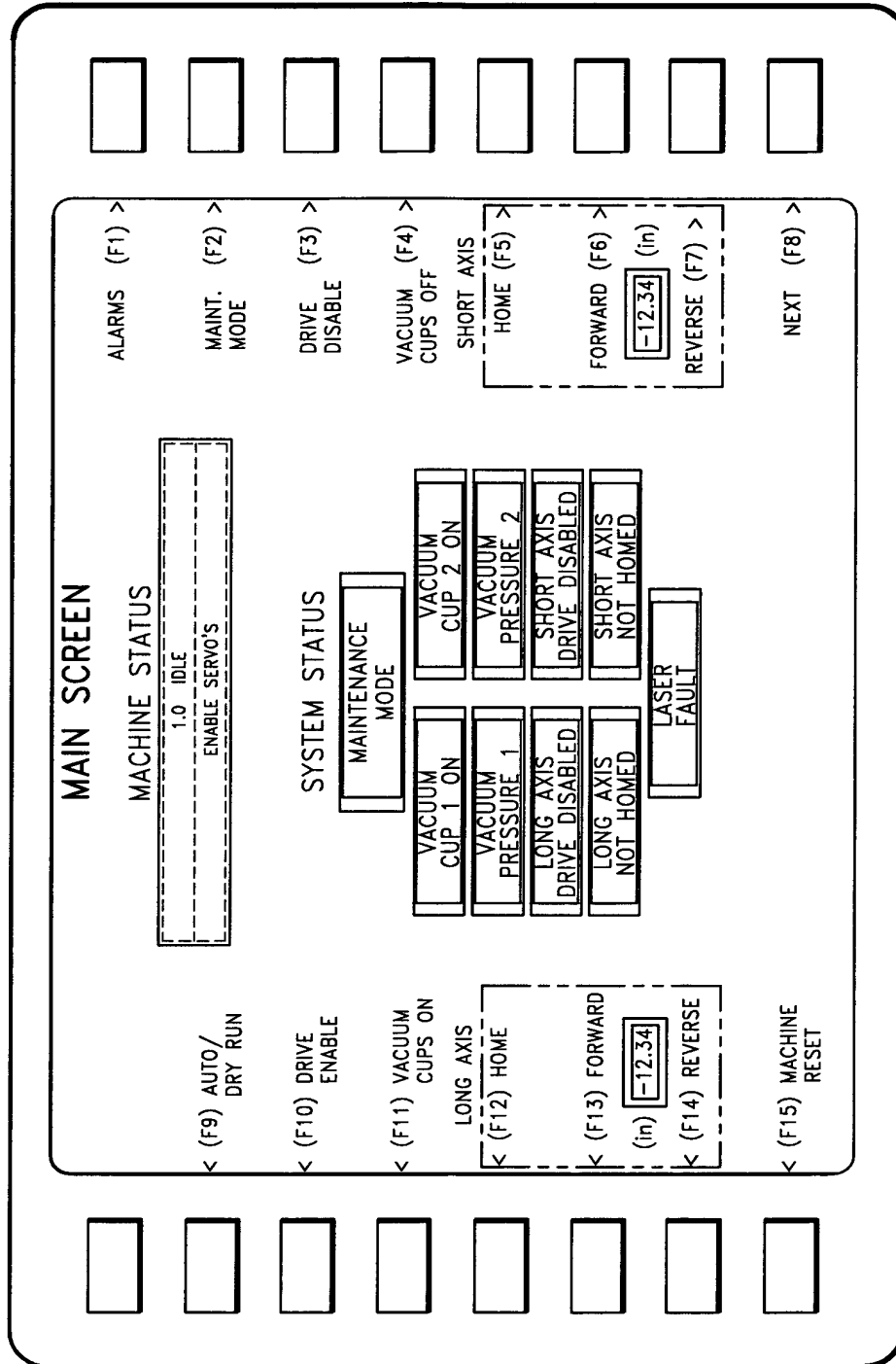


FIG. 17A

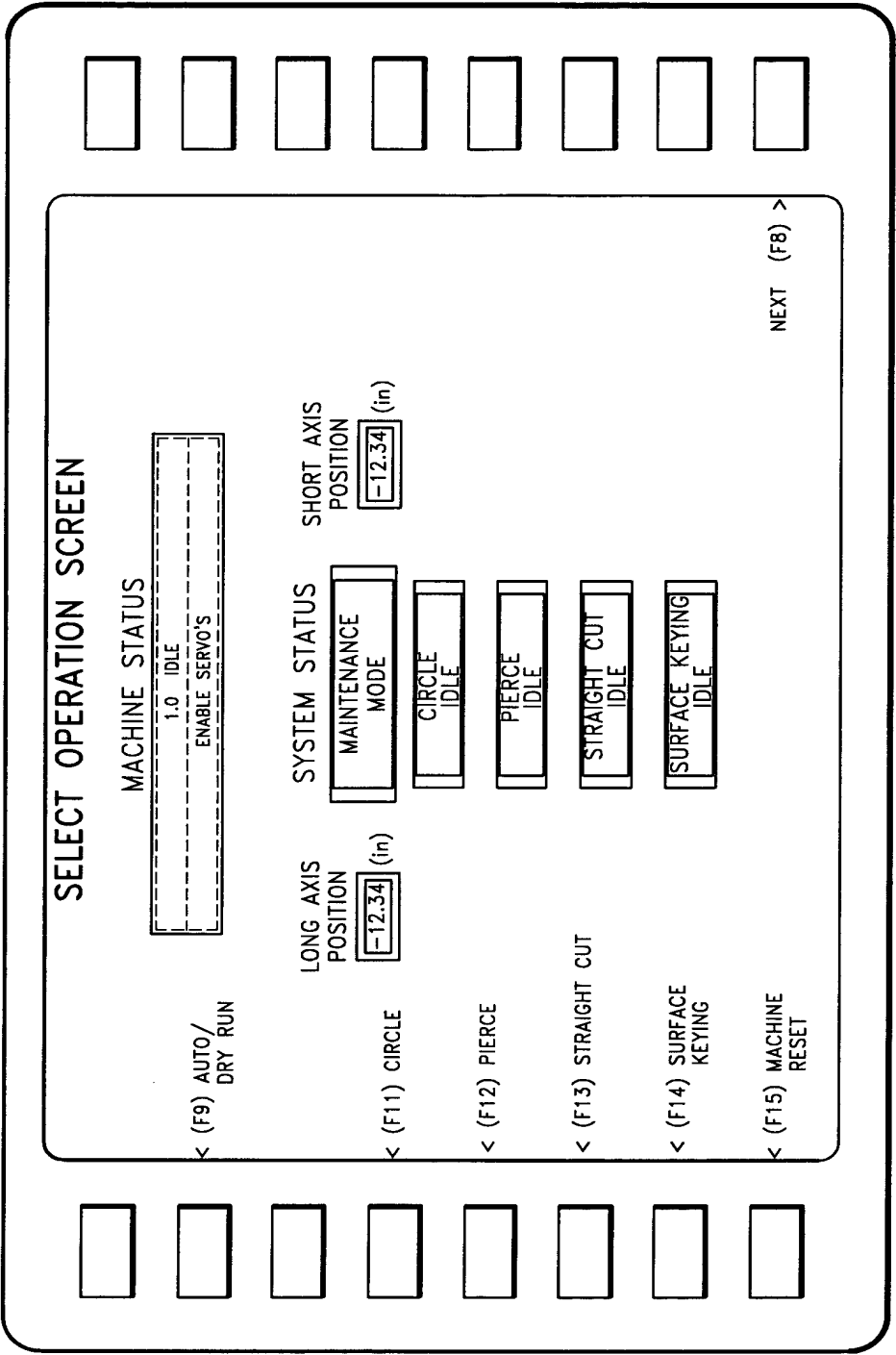


FIG. 17B

CIRCLE SETUP/OPERATION SCREEN

MACHINE STATUS

1.0 IDLE
ENABLE SERVO'S

CIRCLE STATUS

2.0 CIRCLE SEQUENCE IDLE
PRESS CYCLE START TO BEGIN

SYSTEM STATUS

MAINTENANCE
MODE

LONG AXIS
POSITION

-12.34 (in)

SHORT AXIS
POSITION

-12.34 (in)

CIRCLE PARAMETERS

REVOLUTIONS

STATUS 1234

SET POINT 1234

COUNT 123

DIAMETER (in)

STATUS -1.234

SET POINT -1.234

TIME (sec)

STATUS 1234

SET POINT 1234

SPEED (in/min)

STATUS -12.34

SET POINT -12.34

LBU PROGRAM NUMBER

STATUS 12

SET POINT 12

< (F9) AUTO/
DRY RUN

< (F11) CYCLE
START

> (F4) CYCLE
STOP

< (F15) MACHINE
RESET

NEXT (F8) >

FIG. 17C

PIERCE SETUP/OPERATION SCREEN

MACHINE STATUS

1.0 IDLE

ENABLE SERVO'S

PIERCE STATUS

3.0 PIERCE SEQUENCE IDLE

PRESS CYCLE START TO BEGIN

SYSTEM STATUS

MAINTENANCE MODE

PIERCE PARAMETERS

TIME (sec)

STATUS 1234
SET POINT 1234

LBU PROGRAM NUMBER

STATUS 12
SET POINT 12

< (F9) AUTO/ DRY RUN

< (F11) CYCLE START

< (F15) MACHINE RESET

LONG AXIS POSITION

-12.34 (in)

SHORT AXIS POSITION

-12.34 (in)

CYCLE (F4) >
STOP

NEXT (F8) >

FIG. 17D

CUT SETUP/OPERATION SCREEN

MACHINE STATUS

1.0 IDLE
ENABLE SERVO'S

CUT STATUS

4.0 CUT SEQUENCE IDLE
PRESS CYCLE START TO BEGIN

SYSTEM STATUS

MAINTENANCE
MODE

< (F9) AUTO/
DRY RUN

< (F11) CYCLE
START

< (F13) LONG
AXIS

< (F14) SHORT
AXIS

< (F15) MACHINE
RESET

LONG AXIS
POSITION

-12.34 (in)

SHORT AXIS
POSITION

-12.34 (in)

SPEED (in/min)

STATUS -12.34
SET POINT -12.34

LENGTH (in)

STATUS -12.34
SET POINT -12.34

PROGRAM NUMBER

STATUS 12
SET POINT 12

LONG AXIS
NOT SELECTED

SHORT AXIS
NOT SELECTED

NEXT (F8) >

FIG. 17E

SURFACE KEYING SETUP/OPERATION SCREEN

< (F9) AUTO/
DRY RUN

MACHINE STATUS

1.0 IDLE
ENABLE SERVO'S

SURFACE KEYING STATUS

5.0 KEYING SEQUENCE IDLE
PRESS CYCLE START TO BEGIN

> (F4) CYCLE
STOP

< (F11) CYCLE
START

SYSTEM STATUS

MAINTENANCE
MODE

SURFACE KEYING PARAMETERS

LONG AXIS POSITION
[-12.34] (in)

SHORT AXIS POSITION
[-12.34] (in)

PROGRAM NUMBER
STATUS [12]
SET POINT [12]

LONG AXIS LENGTH (in)
STATUS [-12.34]
SET POINT [-12.34]

SHORT AXIS LENGTH (in)
STATUS [-12.34]
SET POINT [-12.34]

SPEED (in/min)
STATUS [-12.34]
SET POINT [-12.34]

OFFSET (in)
STATUS [-12.34]
SET POINT [-12.34]

> (F8) NEXT

< (F15) MACHINE
RESET

FIG. 17F

The diagram illustrates a 'FAULT SCREEN' interface. It features a central table with three columns: 'mm/dd/yy', 'Trig', and 'Message'. The table contains 15 rows of data. Surrounding the table are several navigation and control buttons:

- Top left: RETURN (F1) >
- Top center: ACK ALL (F3) >
- Top right: NEXT (F8) >
- Bottom left: < (F9) AUTO/ DRY RUN
- Bottom right: < (F15) MACHINE RESET

The interface is framed by a border with eight rectangular slots on each of the top and bottom edges, likely for indicator lights or additional controls.

FIG. 17G

MAINTENANCE SCREEN

WARNING:
OPERATION FROM THIS SCREEN
BYPASSES SYSTEM INTERLOCKS

SYSTEM STATUS

MAINTENANCE
MODE

VACUUM
CUP 1 ON

VACUUM
CUP 2 ON

VACUUM
PRESSURE 1

VACUUM
PRESSURE 2

LONG AXIS
DRIVE DISABLED

SHORT AXIS
DRIVE DISABLED

LASER AIR
SOLENOID OFF

LASER AIR
PRESSURE

LONG AXIS
NOT HOMED

SHORT AXIS
NOT HOMED

LASER
FAULT

JOG SPEED
(in/min)

STATUS -12.34

SET POINT -12.34

< (F9) AUTO/
DRY RUN

< (F10) DRIVE
ENABLE

< (F11) VACUUM
CUPS ON

LONG AXIS
< (F12) HOME

< (F13) FORWARD
(in) -12.34

< (F14) REVERSE
(in) -12.34

< (F15) MACHINE
RESET

ALARMS (F1) >

LASER AIR (F2) >
ON/OFF

DRIVE (F3) >
DISABLE

VACUUM (F4) >
CUPS OFF

SHORT AXIS
HOME (F5) >

FORWARD (F6) >
(in) -12.34

REVERSE (F7) >
(in) -12.34

NEXT (F8) >

FIG. 17H

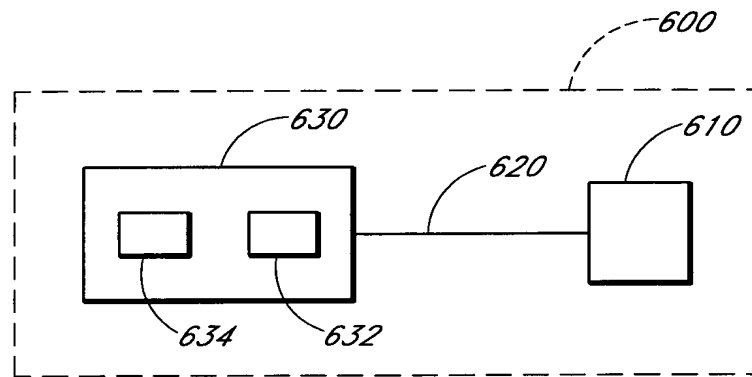


FIG. 18

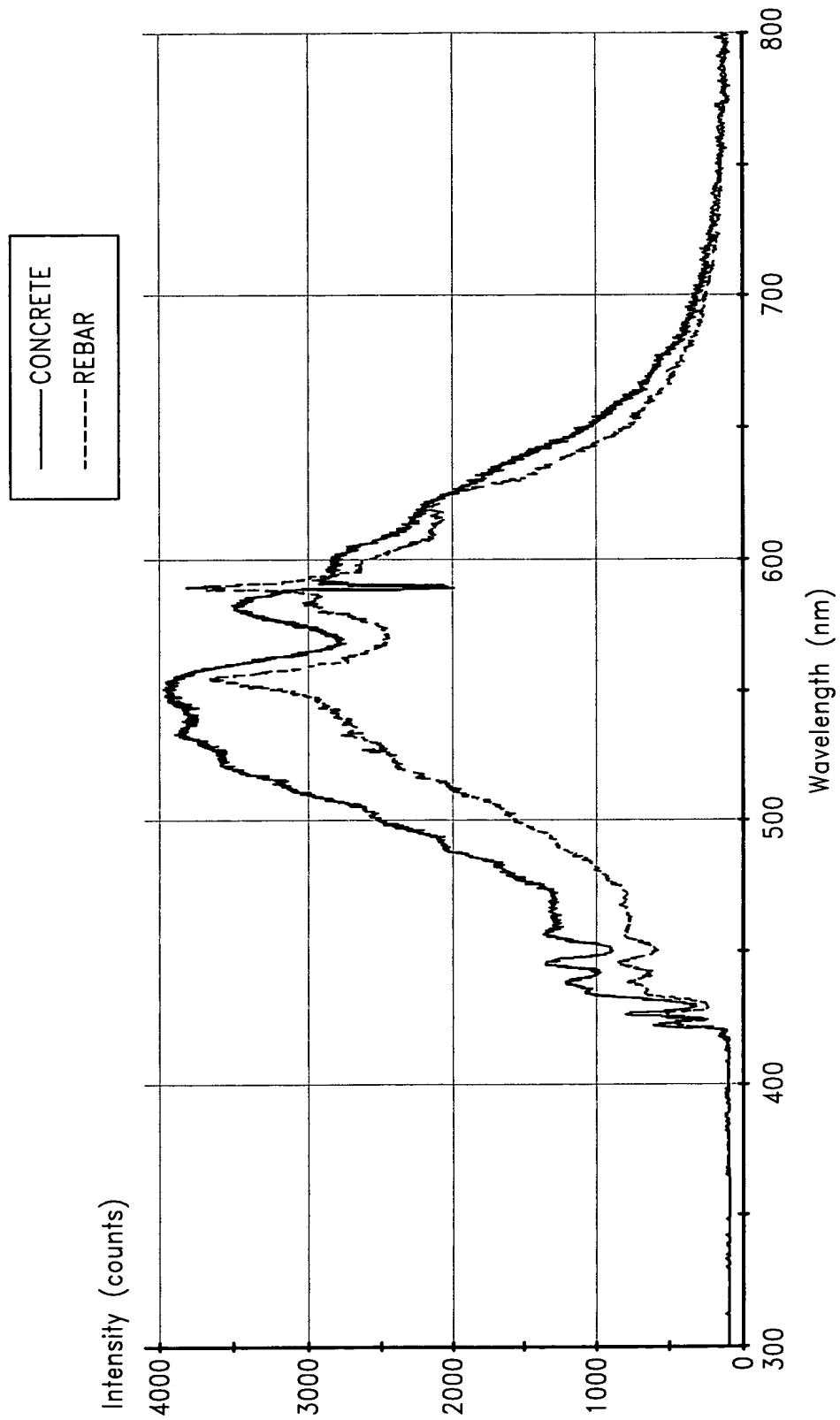


FIG. 19